Installing the Pressure Reducer

Accessories G2815A, G2836A, and G2839A

All of these accessories are similar except that their mounting brackets vary to fit on different Agilent Micro GCs. Verify that you have the correct model accessory for your GC using the table below.

Accessory	Agilent gas chromatograph
G2815A	3000
G2836A	Quad heated, Quad portable
G2839A	M Series, P Series

This accessory is not compatible with any other accessory that is mounted on a bracket on the instrument's front panel.

This kit contains:

Description	Quantity
Flow controller	1
Outlet tube(s)	1 or 2*
1/16-inch nut and ferrule set	1

*Quantity depends on model purchased. Only one outlet tube is required.

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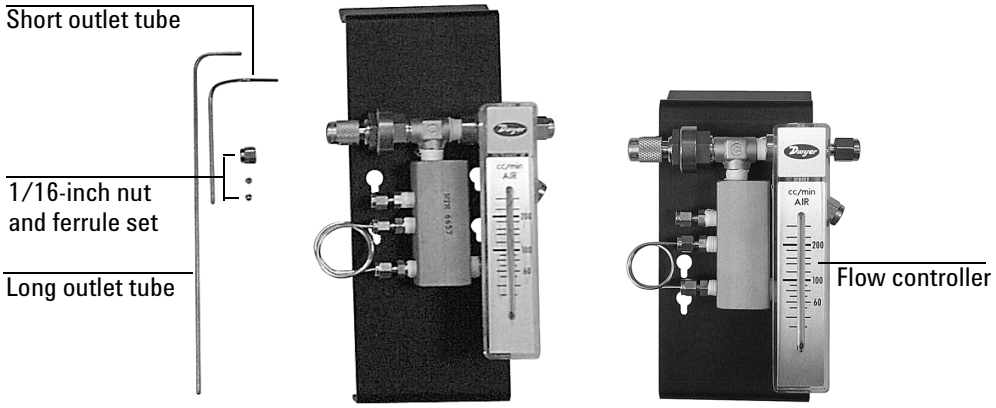


Figure 1. Pressure reducer kit

Tools

5/16-inch wrench

7/16-inch wrench

Parts you need to supply

Vent tubing, if used

Fittings for vent tubing, if used

Sample input tubing and fittings

Installing the pressure reducer

1. Turn off the instrument. If it is a heated model, allow the GC sample inlet fitting to cool.

WARNING Hot surface. The sample inlet fitting may reach 90 °C.

2. If you are installing pressure reducer G2815A on the Agilent 3000 Micro GC, leave the external 10 micron particle filter body in place.
3. If you are installing pressure reducer G2836A on a QUAD GC or a G2839A on a M series or P series GC, remove any fittings or hardware currently in place on the GC sample inlet fitting.
4. Loosely install a 5/16-inch nut, back ferrule, and front ferrule onto the GC sample inlet fitting or the 10 micron particle filter body. **Do not tighten**. You will install the tubing into this fitting later.

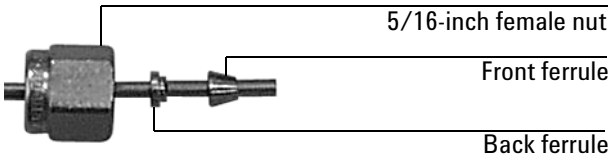


Figure 2. Installing ferrules

5. Insert the outlet tube into the top 1/16-inch fitting on the flow controller. Tighten 1/2-turn past finger tight, then loosen 1/4-turn, so that the tube is loose but will not fall out. The tube **must** be loose.

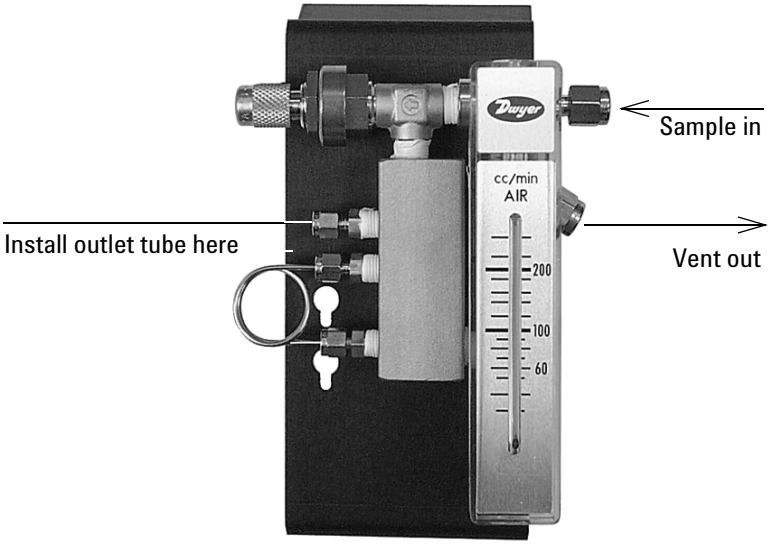
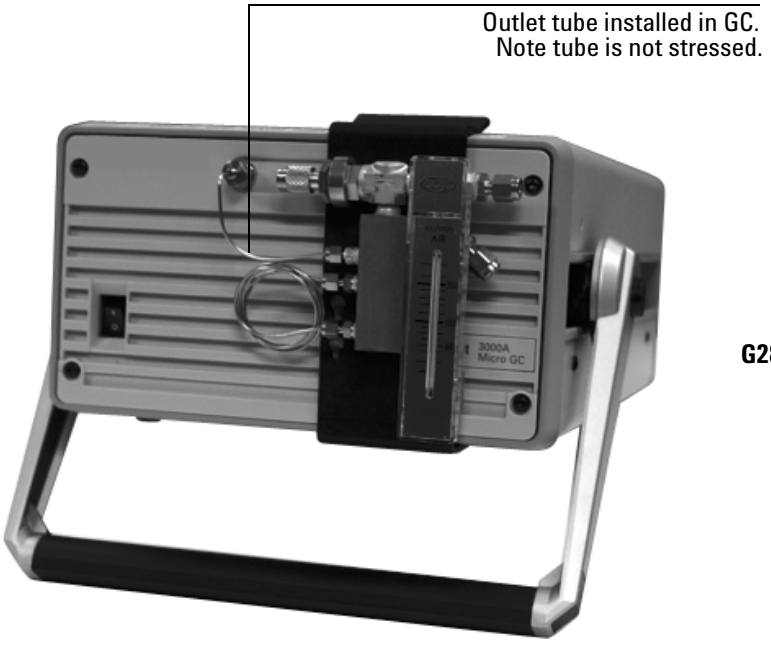


Figure 3. Installing the sample outlet tube

6. Align the bracket horizontally on the face of the GC so that the end of the outlet tubing is approximately over the GC inlet fitting. Then, place the lower lip of the mounting bracket under the bottom front panel as shown below. The edge of the GC front molding should fit into the slot in the bracket.

Figure 4. Installing the bracket onto the GC

7. While checking the alignment of the outlet tubing and the GC inlet fitting (or 10 micron particle filter body), tilt the bracket up and snap it onto the front of the instrument. When properly mounted, the bracket should be flat against the GC frame. Insert the outlet tubing into the GC fitting (or 10 micron particle filter body). See Figure 5.



G2815A and 3000 µ-GC shown

Figure 5. Flow controller, installed

8. The sample outlet tubing should move freely in the GC inlet fitting. If not, slide the accessory along the GC frame until the sample outlet tubing is unstressed.

   Tighten the 5/16-inch nuts.

9. Install your 1/8-inch sample input line to the top right SWAGELOK fitting on the accessory

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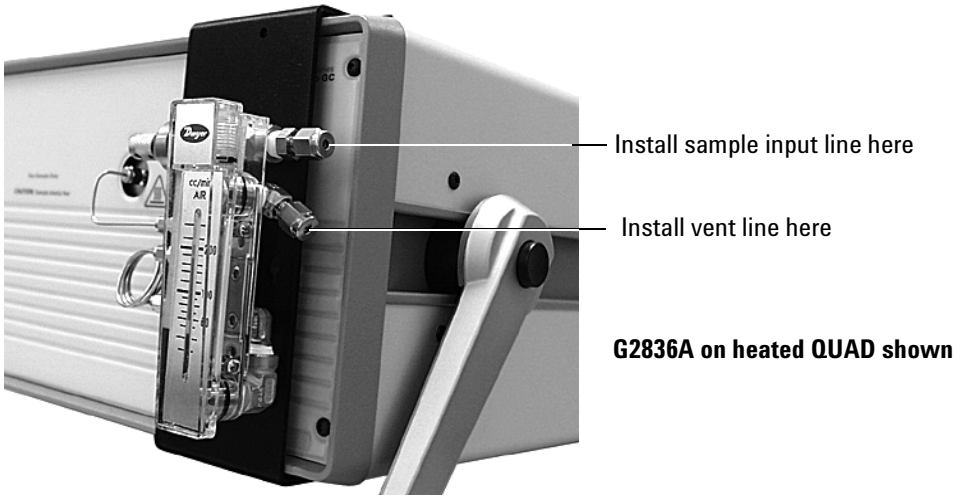


Figure 6. Installing sample input and vent lines

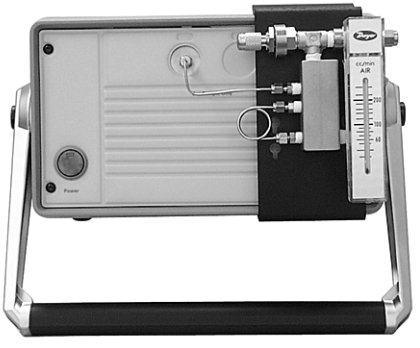
WARNING If a hazardous sample is used, you must provide an appropriate vent line and fittings. Vent the exhaust to a fume hood or other area designated for hazardous waste disposal.

10. Connect a vent line to the vent fitting using standard 1/8-inch fittings. Run the vent tubing to a fume hood or other area designated for hazardous waste disposal.

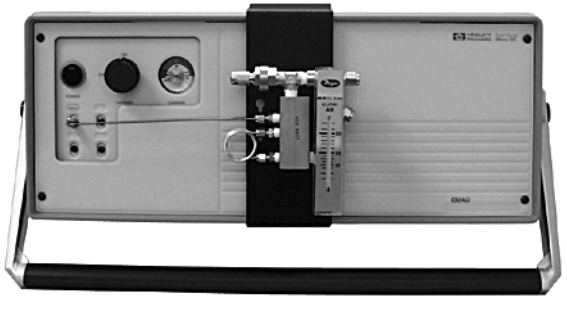
Installation is now complete.

Appearance of the pressure reducer on different Agilent GCs is shown in Figure 7 below.

QUAD Heated



M series



QUAD Portable

P series

3000

Figure 7. Pressure reducer mounted on different GCs

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2850 Centerville Road
Wilmington, DE 19808-1610
Printed in USA JUL 2001

G2890-90127